

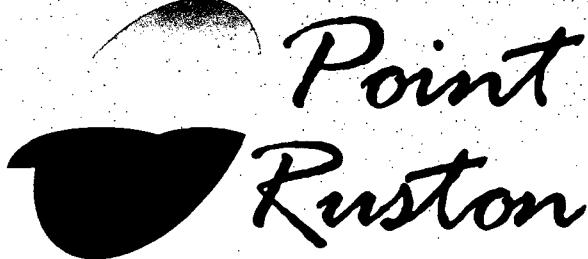
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AUG 17 2011

Environmental
Cleanup Office



5129 N. Shirley St. Suite 100, Ruston, WA 98407

August 15, 2011

Mr. Kevin L. Rochlin
Remedial Project Manager
U.S. Environmental Protection Agency
Region 10
1200 Sixth Avenue, ECL-111
Seattle, WA 98101

RE: Monthly Report: No. 182, July 2011
Operable Unit No. 02 - Asarco Tacoma Smelter Site

Dear Mr. Rochlin:

Point Ruston is submitting this monthly report per the requirements of paragraph 48 of the Consent Decree for the above referenced site. Point Ruston will continue to provide monthly reports to EPA for the site organized in the same manner as previous reports prepared by Asarco to follow item (a) through (g) of this paragraph.

If you have any questions, please call me at (253) 752-2185, extension 236.

Sincerely,

A handwritten signature in black ink, appearing to read "Loren Cohen".

Loren Cohen
Manager of Legal Affairs

Attachment (2 copies)

cc: Chung Ki Yee - Washington Department of Ecology
Evan Griffiths - CH2MHill (2 copies)
Leslie Ann Rose - Citizens for a Healthy Bay

USEPA SF



1382177

Monthly Report 182, July 2011
Operable Unit 02
Asarco Tacoma Smelter Site

A. *Actions taken to achieve compliance with the Consent Decree during the previous month.*

1. No EPA meetings in July while EPA Project Manager Kevin Rochlin is out of the country.
2. Temporary Cap Test Pads Report complete and submitted. Conclude and recommend 2" temporary cap.
3. Erosion control BMP's were maintained after storm events, including replacement of silt fences and exclusion zone fence. On-going site maintenance continues.
4. Continued weekly site-inspection reports (see attached).
5. Maintained clean work area and road.
6. Remedial Action activities continued.
7. Training activities include the following:
 - Site Safety Orientations (Clean Zone) was held for personnel of the following companies:
 - i. Fifteen (15) Olson Brothers employees
 - ii. One (1) CH2MHill employee
 - iii. One (1) PSC employee
 - iv. Twenty-two (22) City of Tacoma employees
 - v. One (1) Siemens employee
 - vi. Two (2) ProVac employees
 - vii. Two (2) P.R. Systems employees
 - viii. One (1) BDZ Construction employee
 - ix. One (1) Cedarpoint Trucking employee
 - x. One (1) HD Fowler employee
 - xi. One (1) Point Ruston employee
 - xii. One (1) Godwin Pumps employee
 - Site Specific Safety Training (Exclusion Zone) was held for personnel of the following companies:
 - i. Fifteen (15) Olson Brothers employees
 - ii. One (1) CH2MHill employee
 - HAZWOPER Basic training was verified or completed by personnel of the following companies:
 - i. Fourteen (14) Olson Brothers employees
 - ii. One (1) CH2MHill employee
 - HAZWOPER annual retraining was verified or completed by personnel of the following companies:
 - i. One (1) Otto Rosenau employee
 - ii. Ten (10) Olson Brothers employees
 - iii. Three (3) Point Ruston employees
 - Other relevant monitoring or training was verified or completed by personnel of the following companies:
 - i. Fifteen (15) Olson Brothers employees (Arsenic Analysis)

Monthly Report 182, July 2011
Operable Unit 02
Asarco Tacoma Smelter Site

B. *Summary of sampling, tests and all other data received or generated by Point Ruston in the previous month.*

1. Outfall activities including the following:

Section 2.3 of the Final Statement of Work (SOW) for Remedial Design and Remedial Action – Exhibit F to the Second Amendment requires Point Ruston to continue outfall monitoring. Outfalls will be monitored to determine if the monthly average surface water outfall concentrations for arsenic, copper, and zinc exceed 0.5 ppm at the North and South site outfalls until they are abandoned.

Weekly composite samples will be collected at each outfall during the construction season. During the winter season, outfall samples will be collected every other month. Asarco began the following schedule in May of 2003, which Point Ruston will continue to implement: weekly composite samples will be collected from April-October, and in December and February.

In addition to the North and South Outfalls, Point Ruston monitors an existing, upland station near the southeastern end of the car tunnel. This monitoring station is designated OSW2. Samples were collect by Point Ruston on 11th, 18th, 26th and August 1st. Results from samples collected are attached. There were no exceedances.

2. Point Ruston collects OCF leachate in a 5,000-gallon polyethylene tank for offsite shipment and disposal. LCRS and LDCRS volumes are monitored weekly in accordance with the draft OCF OMMP. LCRS volumes currently average approximately 106 gallons per day on the LCRS. Point Ruston shipped 5,000 gallons of leachate (7.42 mg/L) on July 11th, and 4,843 gallons of leachate (3.2 mg/L) on July 18th. Results from samples collected are attached.
3. Point Ruston performs perimeter air monitoring at three locations on the site: NW Corner of OCF, OCF Vault #1 (upper vault), and at the South Gate. With EPA approval, Point Ruston has suspended perimeter air monitoring during wet weather events that cause wet site conditions. Perimeter air monitoring will resume when the weather allows the site to dry out. Results for samples collected June 27th through 30th and in July are attached. There were no exceedances.

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Asarco Tacoma Smelter Site

4. Point Ruston performs personal air monitoring in accordance with WAC 296-848-20060(1) & WAC 296-155-17609(1)(a) to determine if the airborne concentrations of arsenic and lead exceed the PEL. Personal air monitoring was performed on July 18th and 19th during placement of clay stock pile materials on the BNSF side of the Ruston Way Realignment. Results for samples collected are attached. There were no exceedances.

C. *Work Plans and other deliverables completed and submitted during the previous month.*

1. Plans and Documents included the following:

Point Ruston Grade and Site Cap (Hydrometrics 2008) – received EPA approval

Temporary Cap Plan – received conditional EPA approval, pending Site Wide Storm Water Plan. Report of results from rain testing to be completed by submitted in mid-July. Temp. Cap to be instituted in summer 2011.

Site Wide Storm Water Plan -- to be submittal in July as part of the Temporary Cap Plan (Hydrometrics 2011).

BNSF Excavation & RA Plan – received EPA approval; work completed and approved. Awaiting BN issuance of Quit Claim Deed – received verbal approval.

Sequence of Development and Occupancy Plan (SDOP) – continuing edits and restructuring

Ruston Way SAP – EPA approved, work completed.

Operations Maintenance, and Monitoring Plan (OMMP) – continuing edits and restructuring

CC&Rs and HOA OMMP budget – continuing edits and restructuring

Phase 1 Construction Management Plan (CMP) –EPA approval; edits and restructuring for re-submittal to include updated RA for site improvements; construction to continue summer 2011.

Master Infrastructure CMP – EPA approved, work ongoing

Waterwalk CMP- drafting ongoing; draft to be submitted summer 2011. 1st Phase anticipated to be built in 2011.

2. Remedial Action included the following tasks:

- OCF construction activities:
 - Maintained leachate collection system.
 - Inspected storm drain system, vaults and cover.
 - Graded the excavated areas used for clean fill materials for Yacht Club Road construction – grass seeding pending.
- Stack Hill construction activities:
 - Maintained erosion and surface water controls; specifically on Commercial Street cul-de-sac area.

Monthly Report 182, July 2011
Operable Unit 02
Asarco Tacoma Smelter Site

- Maintained site perimeter fence and signage at the north end of Stack Hill.
- Site-wide remediation/redevelopment activities:
 - Continued surface water controls
 - Maintained onsite haul roads and stockpiles
 - Maintained erosion and surface water controls; Inspected and repaired silt fence. Ruston Way closed to public traffic on July 13th to accommodate MICMP construction of ROW and other public utilities.
 - Continued site-wide dust monitoring and control through site and access road watering, as needed
 - Maintained air-monitoring program per CH&SP
 - July: all workdays
 - Completed shoreline armoring inspection
 - Completed review of OCF maintenance logs

D. *Actions scheduled for the next six weeks.*

1. Complete BNSF QCD transaction.
2. Complete MICMP construction of water and Yacht Club road cap. Power infrastructure components to begin in 3 weeks; joint utility trench excavations to begin same – completed within 60 days. Begin construction on Storm Sewer, Roadway, Ruston Power, Lighting and Landscaping (LID Phase 2) anticipated to begin in July – full MICMP completion expected Q1-2012; City of Tacoma voting on 3rd Amended LID Agreement July – approved on July 26th, increases LID to \$28.7-million and an agreement to sell 8 acres of Waterwalk property to City following full RA of Waterwalk.
3. Continue CH&SP air monitoring during RA activities.
4. Continue to work on plans associated with Institutional Controls for the site, including Sequence of Development and Occupancy Plan, CC&Rs, and other HOA related documents as required per the Consent Decree, including responding to EPA comments.
5. Continue to work on response to EPA comments on the Operation, Maintenance and Monitoring Plan (“OMMP”)
6. Continue discussions with Metro Parks Tacoma on extension of Yacht Club Road and closure of Waterfront Drive, and offsite environmental liabilities. To be considered as part of LID Amendment with Tacoma
7. Continue discussions with DNR regarding offsite liabilities for sediments and other aquatic land.

Monthly Report 182, July 2011
Operable Unit 02
Asarco Tacoma Smelter Site

8. Vertical construction Phase 1 CMP to begin late July/early Aug 2011.

The following Remedial Action tasks are planned to continue:

RA Monitoring:

- a. Outfall sampling (weekly composite samples) during scheduled months
- b. Air monitoring during remedial action activities

OCF OMMP activities:

- a. Continue collection of leachate for offsite disposal
- b. Continue monitoring of leachate volumes

Stack Hill construction activities:

- a. Erosion controls and site maintenance
- b. Continue home construction and sales & marketing efforts

Site-wide construction activities:

- a. Continue surface water controls
- b. Maintain roads and stockpiles onsite
- c. Maintain erosion controls
- d. Construction activities for mass grading and Master Infrastructure

E. Percentage completion, unresolved delays encountered or anticipated that may affect schedule, and efforts to mitigate delays.

1. Point Ruston is continuing to work with the City of Tacoma & Town of Ruston on work associated with the Master Infrastructure CMP and Phase I CMP; LID construction is ongoing.
2. Point Ruston has verbal approval from BNSF to approve quit claim deed for the area adjacent to Ruston Way; Point Ruston submitted EPA completion letter for SAP, and the second closing is pending, estimated July 2011. Roadway is closed and LID work is being performed on BN property.

F. Modifications to work plans or schedules proposed to or approved by EPA.

1. The Second Amendment to the Consent Decree was finalized and the sale of the property to Point Ruston LLC completed on October 31, 2006.
2. Point Ruston submitted a Request for Schedule Modification to Attachment 1 of the Final Statement of Work on February 9, 2010. EPA approved a SOW Schedule Modification on March 24, 2011 deleting the 50% cap completion date, in exchange for an agreement by Point Ruston to complete an interim temporary cap on the site.

G. Activities undertaken to support Community Relations Plan during the previous month and planned for the next four weeks.

Monthly Report 182, July 2011
Operable Unit 02
Asarco Tacoma Smelter Site

1. Point Ruston continues to work in conjunction with staff from the Town of Ruston and City of Tacoma regarding development plans, which incorporate remediation components for the site.
2. Point Ruston continues negotiation with Tacoma for sale of Waterwalk property.
3. Point Ruston continues to meet with the Town of Ruston, City of Tacoma and MetroParks to address operation, maintenance, and monitoring issues at the site.
4. Point Ruston continues discussions with DNR on cost recovery claims and other sediment cleanup issues.

Weekly Site Inspection Report No.
2011-0626
Week of: 6/26 – 7/2, 2011 **Inspector:** Tim Rusher
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION	NEED REPAIR?	COMMENTS/OBSERVATIONS	
Gates:				
South (electric)	(G) F	P	Y	(N)
Cooling Pond Peninsula	(G) F	P	Y	(N)
54 th Street (electric)	(G) F	P	Y	(N)
Signage:				
Gates	(G) F	P	Y	(N)
Perimeter	(G) F	P	Y	(N)
Safety	(G) F	P	Y	(N)
(Other)	G F	P	Y	N
Public Streets:				
Ruston Way	(G) F	P	Y	(N)
51 st & Gallagher	(G) F	P	Y	(N)
Stack Hill	(G) F	P	Y	(N)
(Other)	G F	P	Y	N
BMPs:				
Berms	(G) F	P	Y	(N)
Waddles	(G) F	P	Y	(N)
Silt Fence	(G) F	P	Y	(N)
(Other)	G F	P	Y	N
Strom drains clean:				
Lower Site	(G) F	P	Y	(N)
Stack Hill	(G) F	P	Y	(N)
Stockpiles:				
Envirotac II	(G) F	P	Y	(N)
Plastic	(G) F	P	Y	(N)
Packed	(G) F	P	Y	(N)
Grass	(G) F	P	Y	(N)
Dust:				
Traffic areas	(G) F	P	Y	(N)
Excavation area	(G) F	P	Y	(N)
(Other)	G F	P	Y	N
Fencing:				
Site Perimeter	(G) F	P	Y	(N)
Zone Separation	(G) F	P	Y	(N)
(Other)	G F	P	Y	N
Cameras:				
Stack Hill	G F	P	Y	N
Lower Site	G (F)	P	Y	(N)

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS
Health & Safety Plans: Site Superintendent Construction Super. Other	G	F	P	(Y) N
	G	F	P	(Y) N
	G	F	P	Y N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: NEW OFF-ROAD WATER TANKER DELIVERED TO SITE ON 6/25/11. ALSO HAVE ADDITIONAL WATER TRUCK (RED FORD) 2 OLSON BROTHERS WATER TRUCKS AND 4 POINT RUSTON WATER TRUCKS NOW IN USE. TEST PAD CONDUCTED W/ HYDROMETRICS. 6/30/11 POWER OUTAGE To H. VOLS (CFC VALVE + NW) 2:30-9:11.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	26	N	NO RA ACTIVITY
Mon	27	Y	LID ACTIVITY - DRY CONDITIONS
Tue	28	Y	N
Wed	29	Y	N
Thu	30	Y	N
Fri	7/1	Y	N
Sat	2	N	No Activity

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	26	50°/69°; NNE WIND 2 MPH/GUST 6 MPH, NO PRECIPITATION
Mon	27	57°/67°; WNW WIND 1 MPH/GUST 7 MPH, NO PRECIPITATION
Tue	28	58°/68°; SW WIND 4 MPH/GUST 18 MPH, NO PRECIPITATION
Wed	29	53°/63°; SSW WIND 8 MPH/GUST 19 MPH, NO PRECIPITATION
Thu	30	52°/63°; SW WIND 7 MPH/GUST 14 MPH, NO PRECIPITATION
Fri	7/1	47°/70°; NNE WIND 2 MPH/GUST 9 MPH, NO PRECIPITATION
Sat	2	51°/79°; SW WIND 4 MPH/GUST 14 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/05/2011

SIGNED:

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No. 2011-0703

Week of: 7/3 – 7/9, 2011 **Inspector:** Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Gates: South (electric) Cooling Pond Peninsula 54 th Street (electric)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Stockpiles: Envirotac II Plastic Packed Grass	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y	(N)
	(G)	F	P	Y	(N)
	G	F	P	Y	N
Cameras: Stack Hill Lower Site	G	F	P	Y	N
	G	(F)	P	Y	(N)

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Health & Safety Plans:					
Site Superintendent	G	(F)	P	(Y)	N
Construction Super.	G	(F)	P	(Y)	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: CROWS GRUBBED VEGETATION FROM PENINSULA STOCKPILES.

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun 3	N	N	No Work Activity - DRY
Mon 4	Y	N	No Work Activity. OPERATED ONLY THE S.GATE STATION
Tue 5	Y	N	LID ACTIVITY - DRY
Wed 6	Y	N	"
Thu 7	Y	N	"
Fri 8	Y	N	"
Sat 9	N	N	No Work Activity - DRY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun 3	55°/70°	SW WIND 5 MPH/GUST 15 MPH, NO PRECIPITATION
Mon 4	51°/73°	NNE WIND 2 MPH/GUST 12 MPH, NO PRECIPITATION
Tue 5	53°/74°	NNE WIND 3 MPH/GUST 13 MPH, NO PRECIPITATION
Wed 6	56°/78°	N WIND 3 MPH/GUST 14 MPH, NO PRECIPITATION
Thu 7	52°/65°	SW WIND 7 MPH/GUST 15 MPH, NO PRECIPITATION
Fri 8	50°/67°	SW WIND 4 MPH/GUST 14 MPH, NO PRECIPITATION
Sat 9	50°/70°	NNE WIND 2 MPH/GUST 10 MPH, NO PRECIPITATION

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/12/2011

✓ SIGNED: 

Tim R.

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer

Weekly Site Inspection Report No.
2011-0710
Week of: 7/10 – 7/16, 2011
Inspector: Tim Rusher
Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Gates:					
South (electric)	(G)	F	P	Y (N)	Reported Issues On 7/14/11
Cooling Pond	(G)	F	P	Y (N)	
Peninsula	(G)	F	P	Y (N)	
54 th Street (electric)	(G)	F	P	Y (N)	
Signage:					
Gates	(G)	F	P	Y (N)	
Perimeter	(G)	F	P	Y (N)	
Safety (Other)	(G)	F	P	Y (N)	
	G	F	P	Y N	
Public Streets:					
Ruston Way	(G)	F	P	Y (N)	CLOSED 7/13
51 st & Gallagher	(G)	F	P	Y (N)	CLOSED 7/13
Stack Hill	(G)	F	P	Y (N)	
(Other)	G	F	P	Y N	
BMPs:					
Berms	(G)	F	P	Y (N)	
Waddles	(G)	F	P	Y (N)	
Silt Fence	(G)	F	P	Y (N)	
(Other)	G	F	P	Y N	
Strom drains clean:					
Lower Site	(G)	F	P	Y (N)	
Stack Hill	(G)	F	P	Y (N)	
Stockpiles:					
Envirotac II	(G)	F	P	Y (N)	
Plastic	(G)	F	P	Y (N)	
Packed	(G)	F	P	Y (N)	
Grass	(G)	F	P	Y (N)	
Dust:					
Traffic areas	(G)	F	P	Y (N)	
Excavation area	(G)	F	P	Y (N)	
(Other)	G	F	P	Y N	
Fencing:					
Site Perimeter	(G)	F	P	Y (N)	VEHICLE DAMAGED FENCE NEAR OSW-2
Zone Separation	(G)	F	P	Y (N)	
(Other)	G	F	P	Y N	
Cameras:					
Stack Hill	G	F	P	Y N	
Lower Site	G	(F)	P	Y (N)	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No.

2011-0710

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Health & Safety Plans:					
Site Superintendent	G	F	P	Y	N
Construction Super.	G	F	P	Y	N
Other	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: SITE SPECIFIC TRAINING HELD 7/13 + 7/15.

RUSTON WAY CLOSED AND BARRICADED AT 49TH ST. + 51ST ST.
 FENCE PLACED @ 51ST. GATE + FENCE PLACED AT 49TH ST.
 ELECTRIC GATE NOT NEEDED AT THIS TIME.
 CUT BACK ON WATERWING CLEAN ROADS. GETTING TOO Muddy.

Air Monitoring:

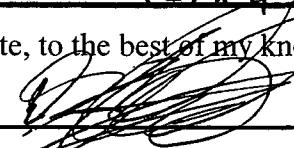
Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes
Sun	10	N	NO R.A ACTIVITY
Mon	11	Y	LID ACTIVITY
Tue	12	Y	"
Wed	13	Y	"
Thu	14	Y	" (S.GATE -CALIBRATION ^{LOST POWER})
Fri	15	Y	"
Sat	16	N	NO WORK ACTIVITY

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions
Sun	10	53°/71°; NNE WIND 2 MPH/GUST 9 MPH, NO PRECIPITATION
Mon	11	56°/72°; WSW WIND 3 MPH/GUST 12 MPH, PRECIPITATION 0.02" (EVE)
Tue	12	56°/66°; SW WIND 3 MPH/GUST 18 MPH, PRECIPITATION 0.04" (EVE)
Wed	13	54°/68°; SSW WIND 6 MPH/GUST 14 MPH, NO PRECIPITATION
Thu	14	56°/60°; SSW WIND 4 MPH/GUST 9 MPH, PRECIPITATION 0.01" (EVE)
Fri	15	55°/69°; WSW WIND 2 MPH/GUST 11 MPH, PRECIPITATION 0.04" (EVE)
Sat	16	57°/69°; SW WIND 3 MPH/GUST 13 MPH, PRECIPITATION 0.34" (MORN)

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/18/2011

✓ SIGNED: 

TITLE / QUALIFICATION: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-0717

Week of: 7/17 - 7/23, 2011 Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y (N)	ELECTRIC S.GATE OUT OF SERVICE REPLACED ELECTRIC S.GATE
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	OCF TANK ACCESS
	(G)	F	P	Y (N)	
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y (N)	CLOSED SINCE 7/13
	(G)	F	P	Y (N)	" " "
	(G)	F	P	Y (N)	
	G	F	P	Y N	
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Stockpiles: Envirotac II Plastic Packed Grass	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y (N)	OPEN ALONG BNSF PROPERTY
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Cameras: Lower Site (Other)	G	(F)	P	Y (N)	
	G	F	P	Y N	

G=Good F=Fair P=Poor Y=Yes N=No

Weekly Site Inspection Report No. 2011 - 0717

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS	
Health & Safety Plans: Site Superintendent Construction Super. Other	G	(F)	P	(Y)	N
	G	(F)	P	(Y)	N
	G	F	P	Y	N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: STARTED HAULING CLAY STOCK PILE (H) TO BNSF SIDE OF RUSTON WAY. CONDUCTED EXPOSURE EVALUATION. REMOVED FABRIC & MULCH FROM UPPER HALF OF SLOPE ALONG OCF ROAD. STARTED GRADING ON NW SIDE OF COOLING POND @ 51ST TO PREPARE FOR STORM DRAIN INSTALLATION.

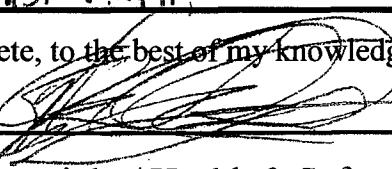
Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes					
Sun	17	N	N	No RA Activity	(WEEKEND)	"	"	"
Mon	18	Y	Y	LID Activity -	EXPOSURE EVALUATION	O ₁ Clay Pile.	"	"
Tue	19	Y	Y	"	"	"	"	"
Wed	20	Y	N	"	"	"	"	"
Thu	21	Y	N	"	"	"	"	"
Fri	22	Y	N	"	"	"	"	"
Sat	23	N	N	No RA Activity	(Town Of Ruston Removed Wires To Tree)	"	"	"

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions					
Sun	17 55°/61°; W. WIND 1 mph / GUST 12 mph; PRECIP. 0.10" (AFTERNOON + EVENING)						
Mon	18 51°/71°; NNE. WIND 2 mph / GUST 9 mph; NO PRECIPITATION						
Tue	19 54°/66°; SW WIND 5 mph / GUST 17 mph; "						
Wed	20 54°/72°; SSW. WIND 5 mph / GUST 16 mph; "						
Thu	21 55°/66°; SSW. WIND 7 mph / GUST 17 mph; "						
Fri	22 50°/71°; N. WIND 3 mph / GUST 9 mph; "						
Sat	23 53°/74°; NNE. WIND 3 mph / GUST 9 mph; "						

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

DATE: 7/25/2011 SIGNED:  Tim R.

TITLE: Construction Oversight / Health & Safety Officer



Weekly Site Inspection Report No.

2011-0724

Week of: 7/24 – 7/30, 2011

Inspector: Tim Rusher

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERAL CONDITION			NEED REPAIR?	COMMENTS/OBSERVATIONS
Gates: 49 th & Ruston Wy Peninsula 52 nd Street 54 th Street (electric)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Signage: Gates Perimeter Safety (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Public Streets: Ruston Way 51 st & Gallagher Stack Hill (Other)	(G)	F	P	Y (N)	(SEE NOTES) CLOSED SINCE 7/13
	(G)	F	P	Y (N)	" " "
	(G)	F	P	Y (N)	" " "
	G	F	P	Y N	
BMPs: Berms Waddles Silt Fence (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Strom drains clean: Lower Site Stack Hill	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Stockpiles: Envirotac II Plastic Packed Grass	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
Dust: Traffic areas Excavation area (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Fencing: Site Perimeter Zone Separation (Other)	(G)	F	P	Y (N)	
	(G)	F	P	Y (N)	
	G	F	P	Y N	
Cameras: Lower Site (Other)					
	G	(F)	P	Y (N)	
	G	F	P	Y N	

G=Good F=Fair P=Poor Y=Yes N=No

Operable Unit 02 – Asarco Tacoma Smelter Site (Point Ruston)

INSPECTION AREA	OVERALL CONDITION		NEED REPAIR?	COMMENTS/OBSERVATIONS
Health & Safety Plans:				
Site Superintendent	G	(F)	P	(Y) N
Construction Super.	G	(F)	P	(Y) N
Other	G	F	P	Y N

G=Good F=Fair P=Poor Y=Yes N=No

Misc. notes: EARTHQUAKE (NON-SIGNIFICANT EVENT)

7/29/11 - ASPHALT GRINDER DEMO'D RUSTON WAY FROM 49TH TO TUNNEL

Air Monitoring:

Day of Week	Hi-Vol Y/N	Personal Y/N	Air Monitoring Notes	
Sun 24	N	N	No Activity	(WEEK END)
Mon 25	Y	N	L.I.D. / RA	ACTIVITY (OCF-NW HI-VOL / NEW BRUSHES + CALIBRATION)
Tue 26	Y	N	" "	" "
Wed 27	Y	N	" "	" "
Thu 28	Y	N	" "	" "
Fri 29	Y	N	" "	" "
Sat 30	N	N	No Activity	(WEEK END)

WEATHER:

Day of Week	(LOW/HIGH)	Summary of Weather Conditions	
Sun 24	56°/79°; NNE. WIND 2 MPH / GUST 8 MPH	No PRECIPITATION	
Mon 25	57°/66°; SSW. WIND 4 MPH / GUST 12 MPH	PRECIP. 0.08" (MORNING + AFTERNOON)	
Tue 26	57°/68°; SW. WIND 4 MPH / GUST 13 MPH	No PRECIPITATION	
Wed 27	56°/69°; N. WIND 2 MPH / GUST 6 MPH	" "	" "
Thu 28	53°/74°; NNE. WIND 2 MPH / GUST 7 MPH	" "	" "
Fri 29	57°/73°; NNE. WIND 2 MPH / GUST 8 MPH	" "	" "
Sat 30	55°/78°; W. WIND 3 MPH / GUST 12 MPH	" "	" "

I certify that this report is true, accurate and complete, to the best of my knowledge and belief.

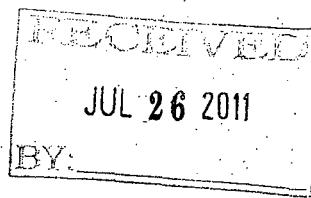
DATE: 8/1/2011SIGNED: 

TMK

TITLE: Construction Oversight / Health & Safety Officer

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07/22/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 07/06/2011
Spectra Project: 2011070051

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8459140	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/27/2011
8459140	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/27/2011
8459139	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/27/2011
8459139	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/27/2011
8459141	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/27/2011
8459141	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/27/2011
8459138	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/28/2011
8459138	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/28/2011
8459137	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/28/2011
8459137	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/28/2011
8459136	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/28/2011
8459136	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/28/2011
8459135	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/29/2011
8459135	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/29/2011
8459134	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/29/2011
8459134	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/29/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a8/bjn

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07/22/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 07/06/2011
Spectra Project: 2011070051

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8459133	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/29/2011
8459133	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/29/2011
8459132	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/30/2011
8459132	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/30/2011
8459131	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/30/2011
8459131	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/30/2011
8459130	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	06/30/2011
8459130	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	06/30/2011
8459128	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011
8459128	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011
8459127	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011
8459127	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011
8459126	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011
8459126	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011
8459129	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011
8459129	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/01/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

101107051

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS								
AIR MONITORING		POINT RUSTON, LLC Hi-VOLS											
SAMPLERS: (Signature)		<i>Jerry Ruh Jr</i>											
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER								
6/27/11	SG		X		8459140		1	✓					
6/27/11	OCF-VI		X		8459139		1	✓					
6/27/11	OCF-NW		X		8459141		1	✓					
6/28/11	SG		X		8459138		1	✓					
6/28/11	OCF-VI		X		8459137		1	✓					
6/28/11	OCF-NW		X		8459136		1	✓					
6/29/11	SG		X		8459135		1	✓					
6/29/11	OCF-VI		X		8459134		1	✓					
6/29/11	OCF-NW		X		8459133		1	✓					
6/30/11	SG		X		8459132		1	✓					
6/30/11	OCF-VI		X		8459131		1	✓					
6/30/11	OCF-NW		X		8459130		1	✓					
7/1/11	SG		X		8459128		1	✓					
7/1/11	OCF-VI		X		8459127		1	✓					
7/1/11	OCF-NW		X		8459126		1	✓					
Relinquished (Signature)		<i>Jerry Ruh Jr</i>		Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other					
				7/5/11 16:00	<i>TRM R</i>		SPECTRA	<u>DROP OFF</u>					
Remarks													
Relinquished (Signature)		<i>TRM R</i>		Date/Time	Received by: (Signature)		Lab	Enclosed:					
				7/6/11 @ 1105	<i>TRM R</i>		RECEIVED	<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter					
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)		Date/Time	Split Samples:					
								<input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____					
<i>Signature</i>													

PAGE 1 of 2

CHAIN OF CUSTODY RECORD

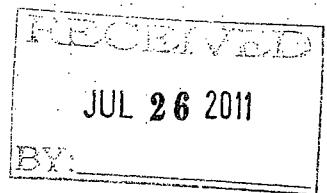
2011010051

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

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07/22/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 07/11/2011
Spectra Project: 2011070149

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8459125	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/04/2011
8459125	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/04/2011
8459124	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/05/2011
8459124	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/05/2011
8459123	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/05/2011
8459123	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/05/2011
8459122	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/05/2011
8459122	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/05/2011
8459121	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2011
8459121	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2011
8459120	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2011
8459120	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2011
8459119	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2011
8459119	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/06/2011
8459116	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2011
8459116	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj



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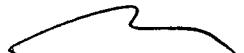
07/22/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 07/11/2011
Spectra Project: 2011070149

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8459117	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2001
8459117	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2001
8459118	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2001
8459118	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/07/2001
8459115	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2011
8459115	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2011
8459114	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2011
8459114	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2011
8459113	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2011
8459113	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/08/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

149
2011070448POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS <i>AS + P</i>	REMARKS	
AIR MONITORING		POINT RUSTON, LLC (HI-VOL)				
SAMPLERS: (Signature)		<i>[Signature]</i>				
DATE	STA #	TIME	COMP			SAMPLE NUMBER
7/4/11	SG		X			8459125
7/5/11	SG		X			8459124
7/5/11	DCF-VI		X			8459123
7/5/11	DCF-NW		X			8459122
7/6/11	SG		X			8459121
7/6/11	DCF-VI		X			8459120
7/6/11	DCF-NW		X	8459119		
7/7/11	SG		X	8459116		
7/7/11	DCF-VI		X	8459117		
7/7/11	DCF-NW		X	8459118		
7/8/11	SG		X	8459115		
7/8/11	DCF-VI		X	8459114		
7/8/11	DCF-NW		X	8459113		

Hi - VOLUME SAMPLER LOG 1 PAGE

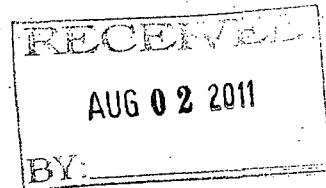
Relinquished (Signature) <i>[Signature]</i>	Date/Time 1:30 7-11-11	Received by: (Signature) <i>Jessica Holt</i>	Lab <i>SPECTRA</i>	Shipped via: FedEx, UPS or Other <i>DROP OFF</i>
Relinquished (Signature)	Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed: <input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
			Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined _____	

Log 1

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08/01/2011



Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 07/20/2011
Spectra Project: 2011070339

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8459112	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/11/2011
8459112	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/11/2011
8459111	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/11/2011
8459111	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/11/2011
8459110	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/11/2011
8459110	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/11/2011
8459109	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011
8459109	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011
8459108	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011
8459108	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011
8459107	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011
8459107	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011
8459105	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2011
8459105	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2011
8459104	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2011
8459104	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj



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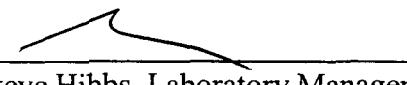
08/01/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 07/20/2011
Spectra Project: 2011070339

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8459103	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2011
8459103	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/13/2011
8459102	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2011
8459102	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2011
8459101	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2011
8459101	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2011
8459000	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2011
8459000	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/14/2011
8458999	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2011
8458999	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2011
8458998	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2011
8458998	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2011
8458997	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2011
8458997	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/15/2011
8459106	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011
8459106	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/12/2011

SPECTRA LABORATORIES



Steve Hibbs, Laboratory Manager

a8/scj

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

7011070339

PROJ. NO	PROJECT NAME		Hi-VOL	NO. OF CONTAINERS	REMARKS	
	AIR MONITORING	POINT RUSTON, LLC				
SAMPLERS: (Signature)	<i>Jim S. Sch</i>					
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER	
7/11/11	SG		X		8459112	
7/11/11	OCF-VI		X		8459111	
7/11/11	OCF-NW		X		8459110	
7/12/11	SG		X		8459109	
7/12/11	OCF-VI		X		8459108	
7/12/11	OCF-NW		X		8459107	
7/13/11	SG		X		8459105	
7/13/11	OCF-VI		X		8459104	
7/13/11	OCF-NW		X		8459103	
7/14/11	SG		X		8459102	
7/14/11	OCF-VI		X		8459101	
7/14/11	OCF-NW		X		8459100	
7/15/11	SG		X		8458999	
7/15/11	OCF-VI		X		8458998	
7/15/11	OCF-NW		X		8458997	
Relinquished (Signature)	<i>Jim S. Sch</i>		Date/Time	Received by: (Signature)	Lab	Shipped via: FedEx, UPS or Other
			7/20/11 @ 0902	<i>Rod Koenig</i>	SPECTRA	<i>Drop off</i>
Relinquished (Signature)			Date/Time	Received by: (Signature)	Remarks	
Relinquished (Signature)			Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
				Split Samples: []Accepted []Declined		Signature

CHAIN OF CUSTODY RECORD

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

20110705339 354

PROJ. NO		PROJECT NAME				NO. OF CONTAINERS	REMARKS								
AIR MONITORING		Point RUSTON, LLC		HI-VOL											
SAMPLERS: (Signature)															
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER										
7/12/11	CONTROL		X		8459106										
7/18/11					HI VOLUME SAMPLER LOG	1 PAGE									
						C.F.M. DATA FOR LISTED FILTER									
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab	Shipped via FedEx, UPS or Other POP OFF								
7/20/11 @ 0902		7/20/11 @ 0902		R. R. R.		SPECTRA	Air Bill #								
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks									
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time	Enclosed:								
							<input type="checkbox"/> Parameter List with DTLs								
							<input type="checkbox"/> Cover Letter								
Split Samples: [] Accepted [] Declined															
Signature															

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AUG 12 2011

BY:

08/07/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 07/26/2011
Spectra Project: 2011070458

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8458996	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/18/2011
8458996	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/18/2011
8458995	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/18/2011
8458995	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/18/2011
8458994	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/18/2011
8458994	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/18/2011
8458993	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011
8458993	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011
8458992	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011
8458992	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011
8458991	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011
8458991	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011
8458989	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2011
8458989	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2011
8458988	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2011
8458988	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj



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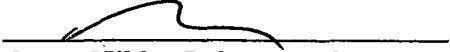
08/07/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (hi-vol)
Date Received: 07/26/2011
Spectra Project: 2011070458

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8458987	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2011
8458987	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/20/2011
8458986	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2011
8458986	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2011
8458985	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2011
8458985	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2011
8458984	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2011
8458984	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/21/2011
8458983	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2011
8458983	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2011
8458982	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2011
8458982	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2011
8458981	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2011
8458981	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/22/2011
8458990	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011
8458990	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/19/2011

SPECTRA LABORATORIES

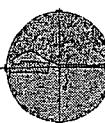


Steve Hibbs, Laboratory Manager

a8/scj

CHAIN OF CUSTODY RECORD

2011070458

POINT
RUSTON5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185
Fax: 253-752-7083

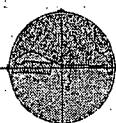
PROJ. NO AIR MONITORING		PROJECT NAME POINT RUSTON, LLC		Hi-VOLS		NO. OF CONTAINERS							
SAMPLER(S) (Signature) <i>John P. Rul</i>													
DATE	STA#	TIME	COMP	GRAB	SAMPLE NUMBER		REMARKS						
7/18/11	SG		X		8458996								
7/18/11	OCF-VI		X		8458995								
7/18/11	OCF-NW		X		8458994								
7/19/11	SG		X		8458993								
7/19/11	OCF-VI		X		8458992								
7/19/11	OCF-NW		X		8458991								
7/20/11	SG		X		8458989								
7/20/11	OCF-VI		X		8458988								
7/20/11	OCF-NW		X		8458987								
7/21/11	SG		X		8458986								
7/21/11	OCF-VI		X		8458985								
7/21/11	OCF-NW		X		8458984								
7/22/11	SG		X		8458983								
7/22/11	OCF-VI		X		8458982								
7/22/11	OCF-NW		X		8458981								
Relinquished (Signature) <i>John P. Rul</i>				Date/Time 7/26/11 @ 1136	Received by: (Signature) <i>Pat Rg</i>	Lab SPECTRA	Shipped via: FedEx UPS or Other DRIVE OFF						
Relinquished (Signature)				Date/Time	Received by: (Signature)	Remarks							
Relinquished (Signature)				Date/Time	Received for Laboratory by: (Signature)	Date/Time	Enclosed:						
							<input type="checkbox"/> Parameter List with DTLs						
							<input type="checkbox"/> Cover Letter						
Split Samples: []Accepted []Declined _____													
Signature													

CHAIN OF CUSTODY RECORD

POINT
RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
 Phone: 253-752-2185 Fax: 253-752-7083

20110704586



PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS	
AIR MONITORING		POINT RUSTON, LLC				Hi-VOL
SAMPLERS: (Signature)		<i>Rush R</i>		<i>AS + PD</i>		
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER	
7/19/11	CONTROL	—	X		8458990	1 X
7/20/11	Hi-VOLUME SAMPLE LOG				1 PAGE	C.E.M. DATA FOR LISTED FILTERS
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other
<i>Rush R</i>		7/26/11 @ 1135	<i>Rod J Pa</i>		SPECTRA	<i>DROP OFF</i>
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks	
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter
Split Samples: <input type="checkbox"/> Accepted <input type="checkbox"/> Declined						Signature

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AUG 10 2011

08/07/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 08/01/2011
Spectra Project: 2011080025

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8458980	1	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/25/2011
8458980	1	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/25/2011
8458979	2	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/25/2011
8458979	2	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/25/2011
8458978	3	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/25/2011
8458978	3	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/25/2011
8458977	4	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/26/2011
8458977	4	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/26/2011
8458976	5	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/26/2011
8458976	5	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/26/2011
8458975	6	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/26/2011
8458975	6	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/26/2011
8458974	7	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011
8458974	7	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011
8458973	8	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011
8458973	8	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a8/scj

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08/07/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Air Monitoring (Hi-Vol)
Date Received: 08/01/2011
Spectra Project: 2011080025

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
8458972	9	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011
8458972	9	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011
8458970	10	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/28/2011
8458970	10	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/28/2011
8458969	11	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/28/2011
8458969	11	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/28/2011
8458968	12	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/28/2011
8458968	12	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/28/2011
8458967	13	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/29/2011
8458967	13	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/29/2011
8458966	14	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/29/2011
8458966	14	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/29/2011
8458965	15	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/29/2011
8458965	15	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/29/2011
8458971	16	Arsenic	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011
8458971	16	Lead	< 0.05	µg/m3	SW846 6010B	Filter	07/27/2011

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager
a8/scj

CHAIN OF CUSTODY RECORD

POINT
RUSTON

5219 N. Shirley St., Suite 100
Phone: 253-752-2185
Fax: 253-752-7083

2011080025

PROJ. NO	PROJECT NAME		NO. OF CONTAINERS	REMARKS							
AIR MONITORING	POINT RUSTON, LLC (Hi-VOL)										JR
SAMPLERS (Signature)											
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER						
7/25/11	SG		X		8458980		1	X			
7/25/11	OCF VI		X		8458979		1	X			
7/25/11	OCF NW		X		8458978		1	X			
7/26/11	SG		X		8458977		1	X			
7/26/11	OCF VI		X		8458976		1	X			
7/26/11	OCF NW		X		8458975		1	X			
7/27/11	SG		X		8458974		1	X			
7/27/11	OCF VI		X		8458973		1	X			
7/27/11	OCF NW		X		8458972		1	X			
7/28/11	SG		X		8458970		1	X			
7/28/11	OCF VI		X		8458969		1	X			
7/28/11	OCF NN		X		8458968		1	X			
7/29/11	SG		X		8458967		1	X			
7/29/11	OCF VI		X		8458966		1	X			
7/29/11	OCF NW		X		8458965		1	X			
Relinquished (Signature)			Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other DRUP OFF Air Bill #				
			8-1-11 1:41	Jessica Holt		SPECTRA					
Relinquished (Signature)			Date/Time	Received by: (Signature)		Remarks					
Relinquished (Signature)			Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:				
							<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter				
Split Samples: [] Accepted [] Declined _____											Signature

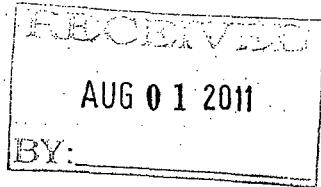
CHAIN OF CUSTODY RECORD

POINT RUSTON

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

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07/27/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Clay Pile (Blue)
Sample Matrix: Air Cassette
Date Sampled: 07/18/2011
Date Received: 07/20/2011
Spectra Project: 2011070328

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
071811-181	1	Arsenic	< 0.003	µg/m ³	SW846 6020A
071811-181	1	Lead	< 0.005	µg/m ³	SW846 6020A
071811-646	2	Arsenic	< 0.003	µg/m ³	SW846 6020A
071811-646	2	Lead	< 0.005	µg/m ³	SW846 6020A
071811-719	3	Arsenic	< 0.003	µg/m ³	SW846 6020A
071811-719	3	Lead	< 0.005	µg/m ³	SW846 6020A
071811-123	4	Arsenic	< 0.003	µg/m ³	SW846 6020A
071811-123	4	Lead	< 0.005	µg/m ³	SW846 6020A
071911-719	5	Arsenic	< 0.003	µg/m ³	SW846 6020A
071911-719	5	Lead	< 0.005	µg/m ³	SW846 6020A
071911-181	6	Arsenic	< 0.003	µg/m ³	SW846 6020A
071911-181	6	Lead	< 0.005	µg/m ³	SW846 6020A
071911-646	7	Arsenic	< 0.003	µg/m ³	SW846 6020A
071911-646	7	Lead	0.029	µg/m ³	SW846 6020A
071911-123	8	Arsenic	< 0.003	µg/m ³	SW846 6020A
071911-123	8	Lead	< 0.005	µg/m ³	SW846 6020A

SPECTRA LABORATORIES

Steve Hibbs, Laboratory Manager

a7/scj

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

2011070328

PROJ. NO	PROJECT NAME		NO. OF CONTAINERS	REMARKS									
LID	CLAY PILE (BLUE)									JR			
SAMPLERS: (Signature)													
DATE	STA #	TIME	CAMP	GRAB	SAMPLE NUMBER								
7/18/11			X		071811-181		1	X	μg/FILTER PRECISION				
7/18/11			X		071811-646		1	X					
7/18/11			X		071811-719		1	X					
7/18/11			X		071811-123		1	X					
7/19/11			X		071911-719		1	X					
7/19/11			X		071911-181		1	X					
7/19/11			X		071911-646		1	X					
7/19/11			X		071911-123		1	X					
7/20/11	SAMPLER LOG INFO SHEET				4 PAGES		PLEASE EMAIL RESULTS TO Tim26@POINTRUSTON.COM						
Relinquished (Signature) <i>James Ruck</i>			Date/Time 7/20/11 @ 0902		Received by (Signature) <i>Rod Koenig</i>		Lab SPECTRA	Shipped via: FedEx, UPS or Other DROP OFF		Air Bill #			
Relinquished (Signature)			Date/Time		Received by (Signature)		Remarks						
Relinquished (Signature)			Date/Time		Received for Laboratory by: (Signature)		Date/Time	Enclosed:					
								<input type="checkbox"/>	Parameter List with DTLs				
								<input type="checkbox"/>	Cover Letter				
							Split Samples: []Accepted []Declined _____	Signature					

RECEIVED
JUL 14 2011
BY:

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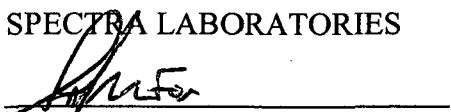
07/12/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: OFC Leachate Tank
Client ID: TSM071111
Sample Matrix: Leachate
Date Sampled: 07/11/2011
Date Received: 07/11/2011
Spectra Project: 2011070146
Spectra Number: 1
Rush

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	3.2	mg/L	EPA 200.7

SPECTRA LABORATORIES


Steve Hibbs, Laboratory Manager
a6/scj

Page 1 of 1

CHAIN OF CUSTODY RECORD

2011070140

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 • Tacoma, WA 98407
Phone: 253-752-2185 • Fax: 253-752-7083

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS						
<i>TACOMA MELTER</i>		<i>OCF LEACHATE TANK</i>									
SAMPLERS: (Signature)											
DATE	STA #	TIME	COMP		GRAB	SAMPLE NUMBER					
7/1/11	LEACHATE	12:10	X			TSMD07111					
Relinquished (Signature)		Date/Time		Received by: (Signature)		Lab		Shipped via: FedEx, UPS or Other <i>EXPOR</i>			
<i>John D. R.</i>		1:30 7-1-11		<i>Assice Holt</i>		<i>SPECTRA</i>		Air Bill #			
Relinquished (Signature)		Date/Time		Received by: (Signature)		Remarks					
Relinquished (Signature)		Date/Time		Received for Laboratory by: (Signature)		Date/Time		Enclosed:			
								<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter			
Split Samples: []Accepted []Declined _____											
Signature _____											

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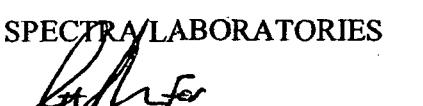
06/15/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: O.C.F Leachate Tank
Client ID: TSM061113
Sample Matrix: Leachate
Date Sampled: 06/13/2011
Date Received: 06/13/2011
Spectra Project: 2011060253
Spectra Number: 1

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>
Arsenic	7.42	mg/L	EPA 200.7

SPECTRALABORATORIES


Steve Hibbs, Laboratory Manager
a6/scj

Page 1 of 1

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

20110600253

PROJ. NO		PROJECT NAME		NO. OF CONTAINERS	REMARKS		
TACOMA SMELTER		OCF LEACHATE TANK				J2	AS
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
6/13/11	LEACHATE	13:10		✓	TSM0601113	1 X	PLEASE EMAIL RESULTS TO Tim@PointRuston.com
						THANK YOU	
Relinquished (Signature)		Date/Time	Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other	
<i>[Signature]</i>		6/13/11 2:03	<i>Marie Wolf</i>		SPECTRA	DROP OFF	
Relinquished (Signature)		Date/Time	Received by: (Signature)		Remarks		
Relinquished (Signature)		Date/Time	Received for Laboratory by: (Signature)		Date/Time	Enclosed:	
						<input type="checkbox"/> Parameter List with DTLS <input type="checkbox"/> Cover Letter	
						Split Samples: [] Accepted [] Declined _____	
						<i>Signature</i>	

Table 1. Summary of July 2011 Outfall Data for As, Cu, and Zn Compared to SOW Limit

Location	As Conc. ppm	% of SOW Limit*	Cu Conc. ppm	% of SOW Limit*	Zn Conc. ppm	% of SOW Limit*
South Outfall	0.053	10.55%	0.016	3.13%	0.011	2.16%
OSW2	0.105	20.95%	0.022	4.44%	0.010	1.93%
North Outfall	0.017	3.40%	0.007	1.36%	0.003	0.51%

* 0.5 ppm is the limit of As, Cu, and Zn allowed as documented in the SOW.

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AUG 05 2011

08/03/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples
Date Received: 08/01/2011
Spectra Project: 2011080026

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM0711411	1	Arsenic	0.018	mg/L	EPA 200.8	Water	07/11/2011
TSM0711411	1	Copper	0.0083	mg/L	EPA 200.8	Water	07/11/2011
TSM0711411	1	Zinc	0.0034	mg/L	EPA 200.8	Water	07/11/2011
TSM0711111	2	Arsenic	0.051	mg/L	EPA 200.8	Water	07/11/2011
TSM0711111	2	Copper	0.010	mg/L	EPA 200.8	Water	07/11/2011
TSM0711111	2	Zinc	0.0053	mg/L	EPA 200.8	Water	07/11/2011
TSM0711211	3	Arsenic	0.054	mg/L	EPA 200.8	Water	07/11/2011
TSM0711211	3	Copper	0.0079	mg/L	EPA 200.8	Water	07/11/2011
TSM0711211	3	Zinc	0.0026	mg/L	EPA 200.8	Water	07/11/2011
TSM0711418	4	Arsenic	0.016	mg/L	EPA 200.8	Water	07/18/2011
TSM0711418	4	Copper	0.0066	mg/L	EPA 200.8	Water	07/18/2011
TSM0711418	4	Zinc	0.0029	mg/L	EPA 200.8	Water	07/18/2011
TSM0711118	5	Arsenic	0.088	mg/L	EPA 200.8	Water	07/18/2011
TSM0711118	5	Copper	0.024	mg/L	EPA 200.8	Water	07/18/2011
TSM0711118	5	Zinc	0.0079	mg/L	EPA 200.8	Water	07/18/2011
TSM0711218	6	Arsenic	0.051	mg/L	EPA 200.8	Water	07/18/2011
TSM0711218	6	Copper	0.0089	mg/L	EPA 200.8	Water	07/18/2011
TSM0711218	6	Zinc	0.010	mg/L	EPA 200.8	Water	07/18/2011

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Steve Hibbs, Laboratory Manager

a8/scj

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08/03/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples
Date Received: 08/01/2011
Spectra Project: 2011080026

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM0711426	7	Arsenic	0.018	mg/L	EPA 200.8	Water	07/26/2011
TSM0711426	7	Copper	0.0056	mg/L	EPA 200.8	Water	07/26/2011
TSM0711426	7	Zinc	0.0014	mg/L	EPA 200.8	Water	07/26/2011
TSM0711126	8	Arsenic	0.046	mg/L	EPA 200.8	Water	07/26/2011
TSM0711126	8	Copper	0.0086	mg/L	EPA 200.8	Water	07/26/2011
TSM0711126	8	Zinc	0.008	mg/L	EPA 200.8	Water	07/26/2011
TSM0711226	9	Arsenic	0.161	mg/L	EPA 200.8	Water	07/26/2011
TSM0711226	9	Copper	0.035	mg/L	EPA 200.8	Water	07/26/2011
TSM0711226	9	Zinc	0.013	mg/L	EPA 200.8	Water	07/26/2011
TSM0811401	10	Arsenic	0.016	mg/L	EPA 200.8	Water	08/01/2011
TSM0811401	10	Copper	0.0066	mg/L	EPA 200.8	Water	08/01/2011
TSM0811401	10	Zinc	0.0024	mg/L	EPA 200.8	Water	08/01/2011
TSM0811101	11	Arsenic	0.026	mg/L	EPA 200.8	Water	08/01/2011
TSM0811101	11	Copper	0.020	mg/L	EPA 200.8	Water	08/01/2011
TSM0811101	11	Zinc	0.022	mg/L	EPA 200.8	Water	08/01/2011
TSM0811201	12	Arsenic	0.153	mg/L	EPA 200.8	Water	08/01/2011
TSM0811201	12	Copper	0.037	mg/L	EPA 200.8	Water	08/01/2011

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Steve Hibbs, Laboratory Manager
a8/scj

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08/03/2011

Point Ruston
5219 N. Shirley St.,
Suite 100
Tacoma, WA 98407

Project: Outfall Samples
Date Received: 08/01/2011
Spectra Project: 2011080026

<u>Client ID</u>	<u>Spectra #</u>	<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Sampled</u>
TSM0811201	12	Zinc	0.013	mg/L	EPA 200.8	Water	08/01/2011

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Steve Hibbs, Laboratory Manager
a8/scj

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AUG 05 2011

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August 3, 2011

Point Ruston
5219 N. Shirley St.
Suite 100
Tacoma, WA 98407

Units: ug/L
Spectra Project: 2011080026
Applies to Spectra #'s 1 thru 12

QUALITY CONTROL RESULTS ICP-MS Metals - EPA Method 200.8 - Water

Method Blank

Date Digested: 8/3/2011 Date Analyzed: 8/3/2011

Element	CAS #	Blank Result
Arsenic	7440-38-2	< 0.5
Copper	7440-50-8	< 0.5
Zinc	7440-66-6	< 0.5

Blank Spike (LCS)

Date Digested: 8/3/2011 Date Analyzed: 8/3/2011

Element	Spike Added	LCS Conc.	LCS %Rec
Arsenic	50.0	48.26	96.5
Copper	50.0	50.96	101.9
Zinc	50.0	50.74	101.5

LCS Recovery limits 85-115%

Matrix Spike/Matrix Spike Duplicate (MS/MSD)

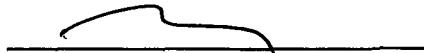
Date Digested: 8/1/2011 Date Analyzed: 8/1/2011
Sample Spiked: 2011080002-1

Element	Sample Conc.	Spike Conc.	MS Conc.	MS %Rec	MSD Conc	MSD %Rec	RPD
Arsenic	2.47	50.0	51.63	98.3	51.32	97.7	0.6
Copper	0.00	50.0	48.93	97.9	48.83	97.7	0.2
Zinc	23.30	50.0	84.33	122.1	83.31	120.0	1.7

Recovery Limits 70-130%

RPD Limit 20

SPECTRA LABORATORIES


Steven G. Hibbs
Laboratory Manager

**POINT
RUSTON**

5219 N. Shirley St., Suite 100 Tacoma, WA 98407
Phone: 253-752-2185 Fax: 253-752-7083

CHAIN OF CUSTODY RECORD

2011080020

PROJ. NO	PROJECT NAME					NO. OF CONTAINERS	REMARKS
TACOMA SMELTER	OUT FALL SAMPLES						
DATE	STA #	TIME	COMP	GRAB	SAMPLE NUMBER		
7/11/11	NORTH	10:19	X		TSM07111411	1	X
7/11/11	SOUTH	10:11	X		TSM07111111	1	X
7/11/11	OSN-2	10:12	X		TSM07111211	1	X
7/18/11	NORTH	10:10	X		TSM0711418	1	X
7/18/11	SOUTH	9:57	X		TSM07111118	1	X
7/18/11	OSN-2	9:59	X		TSM07111218	1	X
7/26/11	NORTH	9:18	X		TSM0711426	1	X
7/26/11	SOUTH	9:05	X		TSM0711126	1	X
7/26/11	OSW-2	9:04	X		TSM07111226	1	X
8/1/11	NORTH	11:52	X		TSM0811401	1	X
8/1/11	SOUTH	12:00	X		TSM0811101	1	X
8/1/11	OSW-2	12:00	X		TSM0811201	1	X
<i>PLEASE EMAIL RESULTS TO: Tim2@PointRuston.com</i>							
Relinquished (Signature)	Date/Time		Received by: (Signature)		Lab	Shipped via: FedEx, UPS or Other	
<i>Jessica Holt</i>	8-1-11 1:41		<i>Jessica Holt</i>		SPECTRA	<i>DROP OFF</i>	
Relinquished (Signature)	Date/Time		Received by: (Signature)		Remarks		
Relinquished (Signature)	Date/Time		Received for Laboratory by: (Signature)		Date/Time	Enclosed:	
						<input type="checkbox"/> Parameter List with DTLs <input type="checkbox"/> Cover Letter	
Split Samples: []Accepted []Declined							
Signature							